

Table 3 A. First floor, main stalk, M109B-2
 $\frac{a_2 w}{a_2 w' \text{ (close)}} II) \overline{BE} / a_2 \underline{bt}; w_x + \underline{w_y spm} \times \frac{a_2 w}{w_s p_m}$

Plant Number	Location of spm	I	II	t-1	t-2	t-3	Pollen	
Year 1957								
T309A-1	[W++/w spm]	-	-					
" A-2	" "	-	-					
" A-3	" " W++/w spm	-	+					
" A-4	" " "	d	-					
" A-5	" " "	wel						
" A-6	" " "	-						
" A-7	[" " "]	-						
" A-8	" " W++/w spm	+						
" A-9	" " "	d						

Table 3 B

From 7109 B₂^{t-1} self-pollinated. $a_2^{mt}(\text{class II})Bt/a_2bt$
 $Wx + / wu Spm$

Plant number	Position of Spm	Cross					Pollen	
		I	II	t-1	t-2	t-3		
Year 1957								
7308 A-4	Wx + / wu Spm	(7570)	(7563)	(7546)			(7554)	
" A-5	" " "	d		+				
" B-1	" " "	+		+	+	+		
" B-2	" " "	+		+	+	+		
" B-3	not tested	+	+					
" B-4	Wx + / wu Spm	+	+	+	+	+		
" C-1	wu wu; Spm/Spm	+	-	+	-	+		
" C-2	wu wu 3 Spm	+	+	+	+	+		
" C-3	wu wu Spm/Spm	+	+	+				
" C-4	wu wu	+	-					
" C-5	wu wu " "	+	+					
" C-6	wu Spm wu Spm " 1Spm	+	+	+				
" D-1	wu + wu Spm	(7573)	(7570)	+++				
" D-2	wu + / wu Spm							
Year 1958								
7570	From cross of 7308 A-4, first ear, main stalk, by 7308 D-2, a ₂ bt/a ₂ bt, wu + / wu Spm							
A-1	Wx + / wu Spm	d	d	+	+	+		
A-2	" " "	+	+	+	+	+		
A-3	" " "	+	+	+	+	+		
A-4	" " "	d		+	+	+		
A-5	" " "	+		+	+	+		
A-6	" " "	+		+	+	+		
A-7	Wx + / wu; 1Spm	+	+	+				
A-8	Wx + / wu Spm + 1Spm	+	+	+				
B-1	Wx Spm / wu +	+	+	+				
B-2	" " " "	+	+	+				
B-3	" " " "	-		+				
C	Wx Spm / wu Spm	+	+	+	+	+		
7563	From cross of 7308 A-4, 2nd ear main stalk, by a ₂ bt/a ₂ bt, wu + / wu, no Spm or							
A-1	Wx Spm / wu +	+		+	+	+		
A-2	Wx + / wu; 1Spm	+	+	+	+	+		
A-3	Wx Spm / wu +	+	+	+	+	+		
A-4	" " " "	+	+	+	+	+		
A-5	" " " "	+	+	+	+	+		
B-1	" " " "	+	+	+	+	+		
B-2	" " " "	+	+	+	+	+		

Table 3B, continued.

Plant Number	Position of Spm	Gens					Pollen
		I	II	t-1	t-2	t-3	
T T	From cross of tiller of 7308A-4 by a ₂ b ₁ /a ₂ b ₁ , W _x /W _x , no Spm or						
	-1 W _x +1 w _x Spm	+	+				
	-2 " "	vd	+				
	-3 " "	+	+				
	-4 " "	+		+			
	-5 " "	+		+			
	-6 W _x /W _x , 1 Spm	+	+	+			
	-7 W _x +1 w _x Spm	+	+	+			
	-8 W _x +1 w _x Spm + 1 Spm	+	+	+			
	-9 W _x ++1 w _x Spm Spm	+	+	+			
	-10 W _x +1 w _x Spm	+					
	-11 " "	+					
	-12 " "	+		+			
7554	From cross of ♀ a ₂ b ₁ /a ₂ b ₁ , W _x /W _x , no Spm x 7308 A-5 or						
A-1	W _x +1 w _x Spm	(+-)	-	d			
A-3	" "	-		—			
A-4	" "	-	vd	vd			
A-5	" "	-		vd			
7573	From cross of sister, main stalk of plant 7308C-6 by a ₂ b ₁ /a ₂ b ₁ , W _x /W _x , no Spm or						
T	A-1 W _x +1 w _x Spm + 1 Spm	d+d					
A-2	W _x +1 w _x Spm + 1 Spm	+	+	+			
A-3	" "	+	+	+			
A-4	" "	+	+				
A-5	" "	+	+				
A-6	" "	+	+				
B-1	W _x ++1 w _x Spm	+					
B-3	" "	vd	dt				
B-4	" "	+	+				
B-5	" "	d					
7576	From cross of sister, main stalk, of plant 7308C-6 by a ₂ b ₁ /a ₂ b ₁ , W _x /W _x , no Spm or						
	W _x ++1 w _x Spm	+	+	+			

Table 3 C.

7308 D-1 progeny. Year 1958

 $a_2 b_2 | a_2 b_2, a_2 + a_2 Spm$ I ♀ parent, no Spm \times 7308 D-1

7564-68

7585

7588

7597

7601

7605

7607

7778

7781

Gens.

Plant No.	Position of Spm	I	II	t-1	t-2	t-3	pollen	
7564-1	W++ a_2 Spm	+		+	+			
" - 2	" " "	+		+				
" - 3	" " "	+		+				
" - 4	" " "	+		+				
" - 5	" " "	+						
7565 A-1	W+ a_2	-						
" A-2	W++ a_2 Spm	(+-)						
" A-3	" " "	rd						
" A-4	" " "	rd						
" A-5	" " "	+						
" B-1	" " "	rd						
" B-2	W+ (a_2 , Spm)	rd						
7566 A-1	W+ a_2 Spm	(+-)		+				
" A-2	" " "	+		+				
" A-3	" " "	d		+				
" A-4	" " "	+		+				
" A-5	" " "	+		+				
" B	W++ a_2 Spm + 2Spm	+++						
7567	W+ a_2 Spm + 2Spm	+++					+++	
7568	W+ a_2 , no Spm							
7588 A-1	W+ a_2	-						
" B-2	W+ + a_2 Spm	rd						
" B-1	" " " + 1Spm	+						
" B-2	" " " + 1Spm	+						
" C-1	" " " + 1Spm	+	-					
" C-2	" " " + 1Spm	+	-					
" D-1	" " "	+						
" D-2	" " "	rd						
7601 B-1	" " "	+						
" B-2	" " "	(+-)						
" B-3	" " "	+						
" B-4	" " "	+						
" B-6	W+ a_2 Spm	rd						
" B-7	W+ + a_2 Spm	+						
" B-8	" " "	+						
" B-9	" " "	+						
7605 A-1	a_2 a_2 1Spm	+						
" A-2	" " 1Spm	+						
" A-3	" " 1Spm	rd						
" A-5	" " 1Spm	+						

Table 3C, continued

Plant Number	Position of Spur	I	II	T-1	T-2			
7605 B	un un	-						
" C	" "	vd						
7607-1	" "	+						
" - 2	" "	vd						
" - 3	" "	vd						
" - 4	" "	-						
" - 5	" "	+						
" - 6	" "	d						
<hr/>								
II ♀ with delayed action Spur x 077308 D-1								
7585 A-1	W+1 un Spur	vd			+			
A-2	" "	+						
A-3	" "	vd						
A-4	" "	vd						
A-5	" "	+						
A-6	" "	d						
" B-1	" " +1 Spur	d	-	vd				
B-2	W+1 un Spur	+			+			
B-3	" "	-						
B-4	" "	vd						
B-5	" "	+						
B-6	" "	vd						
7585								
7597 = From 7455 C-2 (see 0464) ♀	x 7308 D-1 killer-1 7/26							
7597 A-1	Wx+1 un Spur +1 Spur	+	-	x				
A-2	" "	vd						
A-3	" "	d						
A-4	" " +1 Spur	+	d	-				
A-5	" "	+	-	+				
A-6	["]	vd						
A-7	Wx+1 un Spur	vd						
B-1	" "	d						
B-2	" "	+						
T] B-3	Wx/tw4; 1 Spur	+						
T] B-4	Wx un; 1 Spur	+						
B-5	Wx+1 un Spur	d						
B-6	Wx/un	-						
<hr/>								
7556	Wx+1 un Spur +1 Spur	+	+	+	+			

Table 3-C

Year 1960

Raw

Year 1960		I	II	T-1	T-2				
7778 A-1	Wt wt	-	-	-	-				
A-2		-	-	-	-				
A-3		-	-	-	-				
A-4		-	-	-	-				
A-5		-	-	-	-				
A-6		-	-	-	-				
A-7		-	-	-	-				
A-8		-	-	-	-				
" B		-	-	-	-				
" C-2		-	-	-	-				
3		-	-	-	-				
4		-	-	-	-				
5		-	-	-	-				
" D		-	-	-	-				
7781 F	W+Spn/ Wt +	+	+	+	+				

Take 3 A 1957 collections
7109B ♂ fat ear₁^{on mean stalk} x arb fly with no spin or

7309 A		I	II	T-1	T-2	T-3	pollen		
①	[WT + lvs spin]	+	-						
②	[WT + lvs spin]	-	-						
③	WT + lvs spin	*	-						
④	"	"							
⑤	"	"							
⑥	"	"							
⑦	"	"							
⑧	[WT + lvs spin]	d	rel						
⑨	"	"	-						

Table 3B

ear on tiller-1

From 7109 B (2) t^{-1} self. pollinated W++/w_w spm - active.

1957

7308			I	II	II-1	t-2	t-3	pole
A-4	W++/w _w spm	see 7554	+	+	+			+
A-5	" "		(7570-4 ear)	(7568)	(7574-4 ear)			
B-1	" "		d		+	+	+	
B-2	" "		+					
B-3	(not tested) Spm		+	+				
B-4	W++/w _w spm		+		+	+		
C-1	w _w w _w	2 spm	+	+	+	+	+	
C-2	" "	Spm/Spm	+	+	+	+	+	
C-3	" "	Spm/Spm	+	+	+			
C-4	" "	Spm/Spm	+	+				
C-5	" "	" "	+	+				
C-6	" "	Spm/Spm + Spm	+	++	++			
D-1	w _w w _w	w _w + w _w Spm	4573 + ear 1958					+
D-2	" "	" "						+

see separate chart, C table
see " " D = 3

1958

7563 A (2)	From kernels on 2nd ear, main stalk, 7308 A-4							
T (2)	W+Spm w _w	+			+			
" (3)	W+Spm/w _w	+	++	++	++			
" (4)	" "	++	++	++	++			
" (5)	" "	++	++	++	++			
B-1	" "	+		+	+			
B-2	" "	+		+	+			
T	From kernels on tiller ear of 7308 A-4							
7546 (1)	W++/w _w spm	+						
(2)	" "	wd						
(3)	" "	+						
(4)	" "	++						
(5)	" "	++						
(6)	W+ W+, 1 spm	+	+	+	+			
(7)	W++/w _w spm	+	+	+	+			
T (8)	W++/w _w spm + Spm	+	+	+	+			
T (9)	W++/w _w spm Spm	++	++	++	++			
T (10)	W++/w _w spm Spm	++	++	++	++			
T (11)	" "	++	++	++	++			
T (12)	" "	++	++	++	++			

From kernels on first ear, main stalk, of plant 7308 C-6

7573 A (2)	W++/w _w spm (temp)	d						
(2)	W++/w _w spm + Spm	+	+	+	+			
(3)	" "	+	+	+	+			
(4)	" "	+	+	+	+			
(5)	" "	+	+	+	+			
B (6)	W++/w _w spm	+						
(7)	W++/w _w spm	+						
(8)	W++/w _w spm	wd						
(9)	W++/w _w spm	+						
(10)	W++/w _w spm	d						

Table 3 C

7308 D ①

Wt + / Wt Spm - active.

Behavior of Spm in
subsequent generations

= 1958 cultures.

Main stalk pollen - 7/15/57
Spm location

Counted

Plant	Spm location	I	II	t-1	t-2	t-3	pollen	
number.								
T588 A-2	W++ / Wt spm	rd	-					
B-1	W++ / Wt spm	+	-	+	+			
B-2	Wx+ / Wt spm	+	-					
C-1	W++ / Wt spm	+						
C-2	W++ / Wt spm	+						
D-1	W++ / Wt spm	+						
D-2	W++ / Wt spm	rd						
main, pollen 7/16/57								
7556	W++ / Wt spm	d	do					
main pollen 7/21/57								
7565 A-1	W++ / Wt spm	-						
2	W++ / Wt spm	d						
3	W++ / Wt spm	d	+	+				
4	W++ / Wt spm	d						
5	W++ / Wt spm	+						
7585 A-1	Wx+ / Wt spm	d						
2	Wx+ / Wt spm	d						
3	Wx+ / Wt spm	+						
4	Wx+ / Wt spm	rd						
5	Wx+ / Wt spm	+						
8	Wx+ / Wt spm	+						
B-1	W++ / Wt spm	d	do	do	+			
2	" "	do						
4	" "	+						
5	" "	rd						
6	" "	+						
main pollen 7/22/57								
7566 A-1	W++ / Wt spm	(+-)	7776	Year 1960	+			
2	" "	+						
3	" "	d						
4	" "	+						
5	" "	(+-)						
Additional	7/26/57							
7607-1	Wt spm 1 spm	+						
2	" "	rd						
3	" "	rd						
4	" "	-						
5	" "	+						
6	" "	1 spm						
Tiller-1	7/24/57							
7605 A-1	Wt spm 1 spm	+						
2	" "	+						
3	" "	rd						
5	" "	+						
C	" "	rd						

	f	m	I	II	t-1	t-2	t-3	Pollen	
7610 A-1	15mm	Wxt+1uspm	+						
2	"	"	d						
3	"	"	d						
4	"	"	nd						
5	"	"	d						
6	"	"	+						
B-1	"	"	-						
2	0	Wxt+1uspm	+						
3	0	"	(+-)						
4	0	"	nd						
5	0	"	nd						
6	0	"	I						
Pollen-t-1	7/26/57	7564-1	Wxt+1uspm	+					
2	0	"	+						
3	0	"	+						
4	0	"	+						
5	0	"	+						
6	0	"	+						
7	0	"	(+-)						
B-1	0	"	nd						
2	0	"	nd						
T-3	0	Wxt+1uspm	+						
T-4	0	"	+						
5	0	Wxt+1uspm	d						
6	0	Wxt+1uspm	nd						
Pollen-t-2	7/24/57	7601B-1	Wxt+1uspm	+					
2	0	"	+						
3	0	"	"						
4	0	"	"						
6	0	"	"						
7	0	"	"						
8	0	"	"						
9	0	"	"						

ear 1960

7781

\$ 1960 certificates

7778	constitution	I	II	T-1	T-2			
A-1	++	-		-	-			
2	"	-		-	-			
3	"	-		-	-			
4	"	-		-	-			
5	"	-		-	-			
6	"	-		-	-			
7	"	-		-	-			
8	"	-		-	-			
B								
C	-2	"		-	-			
3	"	-		-	-			
4	"	-		-	-			
5	"	-		-	-			
D	"			+	+			
7781 A	W+Spn W+	+						

Table 3 D

Table 3 D
 Progeny of 7308 D ② $m_4 + 1$ Lex^+ Spon - Actif. Summer 1958

Parent of

Main 7/20		SPPM 7302D-2	I	II	E-1	t-2	t-3	policy	
7583	B-1	W++ 15pm W++ 15pm	+	+	+				
2	"	"	+	+	+				
3	"	"	+	+	+				
4	"	"	+	+	+				
5	"	"	+	+	+				
B-1	"	"	+	+	+				
2	"	"	+	+	+				
3	"	"	+	+	+				
4	"	"	+	+	+				
C-1	"	"	+	+	+				
2	"	"	+	+	+				
T	3	"	+	+	+				
4	"	"	+	+	+				
T D-1	5	W++ 15pm Spm	+	+	+				
6	Wx+ 15pm								
T D-2	7	Wx+ 15pm							
main 7/21									
7569	T*①	W++ 15pm	#	+	+				
0	W++ 15pm		+	+	+				
2	"	"	(+-)						
3	"	"	7779						
T 4	"	"	+						
5	W+ 15pm		d						
6	W+ 15pm		+						
7	"	"	-						
main 7/23	7575A	W++ 15pm	d		+				
B	"	"	+						
7570A	W++ 15pm	W++ 15pm	R	R	R	R	R	R	
1	"	"	d	d	d	d	d	d	
2	"	"	+	+	+	+	+	+	
3	"	"	+	+	+	+	+	+	
4	"	"	d	d	d	d	d	d	
5	"	"	+	+	+	+	+	+	
6	"	"	+	+	+	+	+	+	
T 7	W+ 15pm	W+ 15pm							
T 8	"	"							
B-1	W+ 15pm	W+ 15pm	+	+	+	+	+	+	*
2	"	"	+	+	+	+	+	+	*
3	W+ 15pm	W+ 15pm	+	+	+	+	+	+	*
C	W+ 15pm	W+ 15pm	-	+	+	+	+	+	+

Tiller -1		7/23/57	I	II	t-1	t-2	t-3	pollen	
7571-1	0	W+ + 1m spm	d	+	+	+			
2	0	"	+						
4	0	" "	+		(+-)	+			
5	0	" "	+	+	+				
Tiller -1	7	26/57							
7602-1	0	W+ + 1m spm	+						
2	0	" "	+						
T 3	0	W+ m, 2spm	+						
4	0	[W+ + 1m spm]	nd						
5	0	W+ + 1m spm	nd						
Tiller -1	7	27/57							
7591A-1	0	W+ + 1m spm	-	-	+				
2	1	" "	+						
3	1	" "	+						
4	1	" "	+						
5	1	[" "	d						
6	0	" "	+						
7	0	" "	+						
8	0	" "	+						
T B-1	0	W+ m, 1spm							
2	0	W+ + 1m spm							
3	0	" "							
4	0	W+ m, 1spm							
5	0	W+ + 1m spm							
7595A-1	0	W+ + 1m spm							
2	0	[" "							
3	0	W+ + 1m spm	(+-)						
6	0	" "	+						
T B-1	0	W+ m, 1spm							
2	0	W+ + 1m spm							
3	0	" "							
4	0	" "							
5	0	" "							
6	0	" "							
1960									
4779A-1	0	W+ m, 1spm							
2	0	" "							
3	0	" "							
4	0	" "							
5	0	" "							
6	0	" "							
B	1	" "							
2	0	" "							
3	0	" "							
4	0	" "							
5	0	" "							
6	0	" "							

W+ m, 1spm = meiosis in 1 cell
W+ + 1m spm = meiosis in 2 cells

From meiosis \rightarrow active in neither.

Op. 11/11/66

nd

nd

-

-

nd

Plants from

7308 D₂ t-1 ear x t-2 pollen

1958

	Spm constitution	I	II	t-1	t-2	t-3	pollen	
7538								
T 1	Spm Spm	+	+				+	
2	Spm + Spm	+	+				+	
3	1 Spm		+				+	
4	1 Spm		+				+	
5	1 Spm		+				+	
6	Spm Spm		+				+	
9	1 Spm		+				+	
10	Spm Spm		+				+	
12	1 Spm		+				+	
13	1 Spm		+				+	
14	1 Spm		+				+	
R-2	Spm Spm		+				+	
R-4	Spm Spm	+	+				+	

Table 3 E. 1960 cultures from

7570C

W+Spm-active / W₄ Spm-active
 (from C.O.) (from 7308D②)
7308A④

7816

7817

7818

Spm Form 7308D② sub		I	II	t-1	t-2	t-3	Pollen
7816 -1				+++	+		
" - 2	3 Spm			+			
" - 3							
spm from 7308D② sub							
7817 - 1			+				
" - 2				+			
" - 3					+		
" - 4							
" - 5							
spm from 7308D② sub.							
7818 A-1	Spm Spm			++	++		
A-2	1 Spm						
B-1	1 Spm						
2	1 Spm						
3	Spm Spm						
4	Spm Spm						
5	Spm Spm						
6							
7	1 Spm						
8	1 Spm						
9	Spm Spm						
10	1 Spm						
11	Spm Spm						

Var 1958

 ~~$a_2 m^{-1}$ (pale - does not fit) BI / $a_2 bT$ Wx + / wv spin - from 7308 D①~~

	From 7308 D① ^m	^{from?}	I	II	T-1	T-2	T-3		
7556	$W + wv \text{ spin} + 1 \text{ spin}$		d	+					
From 7308 D① T-1									
7564-1	$W + wv \text{ spin}$		+						
" - 2	" "		+						
" - 3	" "		+						
" - 4	" "		+						
" - 5	" "		+						
From 7308 D① ^m									
7565-1	$[W + wv \text{ spin}]$		-						
" A-2	$W + wv \text{ spin}$		d						
" A-3	" "		d ^{c-1}						
" A-4	" "		vd						
" A-5	" "		+						
" B-1	[" "		vd						
" B-2	$W + wv$	spin	vd						
From 7308 D① main									
7585 A-1	$W + wv \text{ spin}$		vd						
" A-2	" "		+						
" A-3	" "		vd						
" A-4	" "		vd						
" A-5	" "		+						
" A-6	" "		d						
" B-1	" "		d ^{c-1}						
" B-2	" "		d ^{c-1}						
" B-3	$W + wv$		-						
" B-4	$W + wv \text{ spin}$		vd ^{c-1}						
" B-5	" "		+						
" B-6	" "		vd.						

$\alpha_2 m$ (pab-easy) BL / $\alpha_2 b t$ spin from 7308D①

From	$308D①^{t=2}$	I	II	$t=1$	$t=2$	$t=3$		
7601 B①	W++ mu Spin	+						
" B-2	" "	d						
" B-3	" "	(+-)						
" B-4	" "	+						
" B-6	[" "	vd						
" B-7	W++ mu Spin	+						
" B-8	" "	+						
" B-9	" "	+						
From 7308D① ^{t=2}			+					
7605 A-1	mu mu Spin	+						
" A-2	" "	+						
" A-3	" "	vd						
" A-5	" "	+						
" B-1	" "	-						
" C	" "	vd						
From 7308D① main								
7607 -1	mu mu	+						
" -2	mu mu	vd						
" -3	" "	vd						
" -4	" "	-						
" -5	" "	+						
" -6	" "	d						
From 7308D① (?)								
7610 B-1	W+ mu	-						
" B-2	W++ mu Spin	d						
" B-3	W+ mu	vd						
" B-4	W++ mu Spin	vd						
" B-6	" "	vd						

Year 1957

α_2^{m1} (pale-spotted) BL/a_{2bt} spin from 7308 D-2

From 7308 D(2) E-1	I	II	T-1	T-2	T-3			
7571 " - 2 " - 3 " - 4 " - 5	Wt + un spin " " " Wt un ^{7537C} spin Wt + un spin " " "	Wd ^{7537C} + o + +	+ o + +	+ ^{x 7538(14)} ⁽⁺⁻⁾ ^{+ 7537C} o	+			
From 7308 D(2) main								
7583 A-2 " A-3 " A-4 " A-5 " B-1 " B-2 " B-3 " B-4 " B-5	Wt + un spin " " " " " " [" "] Wt + un spin " " " " " " " " " " " "	+ + - + + + + +	+ + + +	+ ^{x 7538} ⁽¹⁴⁾ +				
		d	^{x 7537C} ⁽¹⁾					

		I	II	t-1	t-2	t-3		
From 7308 D(?) t-1								
7602-1	W++ 1 un spin	+						
" - 2	" " "	+						
" - 3	W+un ; 2 spin	+						
" - 4	[W+ + 1 un spin]	vd						
" - 5	W+ + 1 un spin	(+-)	vd	+ ^{x 7335} (4)				

$a_2^{-m} \in$ pale-dot(BI) BI | $a_2^s \text{bt}$

From 7312 (5)

Wt Spn	wt +	Ear	I	II	t-1	t-2	t-3		
7547 A-1	pale-spotted		-	X 7538-3 ^{15M4}	+	d			
" A-2	:		+		+				
" A-3	:		d ₁₀ +						
" A-4	:		-						
" A-5	:		-	nd					
" B. =	A2 state		-						
" C-1	:		nd		d ₁₀ +				
" C-2	:		+						

For Table 2

spores from leaf # of 7109B① + from pollen of 7109B④

- = inactive spores
 vd = .. " except
 for 1 or several leaves
 d = delayed active spores
 + = fully active spores.

A = from ear I

New test set.

	Location of Spore	I	II	t-1	t-2	t-3	Pollen tested
7109B① I	1957	vd 7456B-5					
7456 B-5	W+H in spore 1957	-		d	d		
" C-1	W+Hx 1spore	-		vd			
C-2	W+1 espore	-		d			
C-3	" "	-		vd			
C-4	" "	-		-			
D-1	W+	-		vd			
D-2	" "	-		d			
D-3	["]	-		vd			
D-4	W<W-	vd		vd			
D-5	W<+1 espore	====		vd			
D-7	" "	-		vd			
E-2	" "	-		vd			
	1958						
7600 (from 7456C⑤)	① W+H in spore	-					
②	W+W+ 1spore	vd					
③	W+1 espore	-		-			
④	W++1 espore	-	sector	-			
⑤	" "	-					
⑥	W+W+ 1spore	-		-			
⑦	W+1 espore	-		-			
⑧	W+W+ spore	-		-			
⑨	[W+1 espore]	-		-			
⑩	W+1 espore	-		-			
⑪	" " " "	-		vd			
	7598 (from 7456 D⑤) I						
①	" "	vd					
②	W+W+ 1spore	-					
	7599 from pollen of 7456 D⑤						
A ①	W+1 espore	-		d			
②	" "	-		d			
③	" "	-		-			
④	" "	-		-			
⑤	W+W+ 1spore	-		-			
⑥	[W+1 espore]	-		-			
B ①	W+1 espore	vd					
②	" "	vd					
③	" "	d					
④	W+Hx 3spore	====		-			
	1960 (active spores not recorded - not recorded here). (I suppose) W+Hx 3spore						
7780 H①	W+Hx 3spore	+	+	+	+	+	Replace in chart.
②	" "	-	-	-	-	-	
③	" "	-	-	-	-	-	
④	" "	-	-	-	-	-	
⑤	" "	-	-	-	-	-	
⑥	" "	-	-	-	-	-	
⑦	" "	-	-	-	-	-	
⑧	" "	-	-	-	-	-	

		I	II	t-1	t-2	t-3	pollen
7580B (2)	W + spin m spin	-	-	d	+		
" " (3)	" " "	-	d	-	+		
1957 7312	From pollen 7109B (1)	-	-				
1958 7547 (2)	From 7312 (5) I A (1) B (2) C (3) D (4) E (5) F (6)	-	-	+	+		(+) many small lobes.
	W + spin m +	-	-	+	+		
	" " "	-	-	+	+		
	" " "	-	-	+	+		
	W + spin m plant	-	-	+	+		
	W + spin m plant	-	-	+	+		
	W + spin m +	-	-	+	+		
	" " "	-	-	+	+		
	" " "	-	-	+	+		
1957 7313	from pollen of 7109B (1)	rd	rd	+	+	+	
A (1)		rd	rd	+	+	+	
B (2)		d	rd	+	+	+	
C (3)		rd	rd	+	+	+	
D (4)		rd	rd	+	+	+	
E (5)		+	+	+	+	+	
F (6)		+	+	+	+	+	
7780 B-1	Complete W ++ m spin	♂ spin	♂ spin	♂ spin	♂ spin		
B-2		d	+	+	+		
B-3		d	+	+	+		
B-4	"	d	+	+	+		
B-5	"	d	+	+	+		
B-6	"	d	+	+	+		
B-7	"	d	+	+	+		
B-8	"	d	+	+	+		
B-9	"	d	+	+	+		
B-10	"	d	+	+	+		

Type-2

B

9109 B ① t^{-1} ear = active spm

+ = active spm
vd = very few kernels show active spm.

1957			I	II	t^{-1}	t^{-2}	t^{-3}	Pollen	
7306 A	1	Wt + 1 w SPM	+	7560 year old	+				
T	2	" "	-			+			
T	3	Wt + Wt; 1 SPM	-						
T	4	Wt + 1 w SPM	+						
T	5	" "	+						
T	6	" "	+						
T B	1	Wt + 1 w SPM + 2 SPM	+	*	+				
T	2	" " + 1 SPM	+	*	+				
1958 C.O	①	Wt SPM Wt +	+						
T	②	[" " : " "]	-						
T	③	Wt Wt 1 SPM	vd						
T	④	Wt Wt 2 SPM	+	+					
T	⑤	Wt SPM Wt +	+						
T	⑥	Wt Wt; 1 SPM	+						

Table - 2

C. 7109 B ① T-2 ear. Active Spur

+ = active spur
 d = delayed or less spur in ear
 (\pm) = before of + and -
 $(+d-)$ ^{late} _↓ reinforced ear.

1957			I	II	T-1	T-2	T-3	Pollen	
1957A	① W+W+ ② W+F+ W+ Spur ③ " " " ④ " " " ⑤ " " " ⑥ " " " B ① " " " ② new " (late +) ^{late} _↓ ^{late} T ③ W+F+ W+ Spur +1 Spur ④ " " " " "	Spur Spur	d + + + + + + + + + + + + and + + and +	- + + + + + + + + + + + + and +	- + + + + + (\pm) + +	- + + + + + + + + + + +	- + + + + + +		
1958	7561	① [W+ Spur] ② W+ Spur ③ " ④ " ⑤ "	new + new + (\pm) $\frac{+}{+}$	- nd + -					delayed active Spur
	7562	① " ② " ③ "	" " "	+	+				
	7572	① W+F+ W+ Spur ② " " ③ " " ④ W+W+ ⑤ W+F+ W+ Spur ⑥ " ⑦ "	new + " " nd nd +	+	+	+			
1960	7777A	① W+ Spur ② " ③ " ④ " B ⑤ " ⑥ " ⑦ " C ⑧ "	new + " " " by 1962 B.C. (\pm) $\frac{+}{+}$ (\pm)	(+d-) + (+d-) do (+d-)	(+) - - - -	+ + + +	(±) (±)		Frequent change in shape
	D	① " ② " ③ " ④ " ⑤ " ⑥ " ⑦ " ⑧ "	" " " " " " " "	- - - - - - - -	-	- - - -			

$$\begin{aligned} \textcircled{i} &= a_2 b t^2 + \text{No Spec} \\ \textcircled{ii} &= \dots \text{no spec} \dots \\ \textcircled{iii} &= a_2 b t^2 \text{ no } + 1 \text{ no Spec - anti tip} \\ &\quad 7308 D - 102 D - 2 \end{aligned}$$

Type of cross conducted with parts of plant

				First ear main stalk	Second ear main stalk	Ear of tiller - 1	Ear of tiller - 2	Ear of tiller - 3	Pollen
7456									
A-1	W+ W+			no Spur	③	②	①		①
A-2	W+ W+			no Spur	③	①	②		
A-3	Wx W+			no Spur	③	①	②		
A-4	Wx Wx			(no Spur)	③	①	②		
B-1	Wx W+			no Spur	③	①	②		
B-2	Wx Wx			no Spur	③	①	②		
B-3	Wx Wx			no Spur	③	①	②		
B-5	W+ + no Spur			no test for Spur	③	②	①		
B-6	W+ W+				③	①	②		
C-1	W+ W+ Spur				③	①	②		①
C-2	W+ + no Spur				③	②	①		①
C-3	W+ + no Spur				③	①	②		②
C-4	Wx + no Spur				③	①	②		②
D-1	Wx + no Spur				③	①	②		①
D-2	(W++ no Spur)				③	①	②		①
D-3	(W++ no Spur)				③	①	②		①
D-4	W+ W+ Spur				②	③	③		①
D-5	Wx + no Spur				②	③	③		①
D-7	Wx + no Spur				②	③	③		①
E-1	W+ W+			no Spur	③	①	②		①
E-2	W++ no Spur			no Spur	③	①	②		①
E-3	Wx Wx				①	③	①		①